

Organic Blue Pigment Grind with an Efficient Dispersant

Borchi® Gen WNS wetting and dispersing agent

For use in general industrial coatings.



Low molecular weight dispersant used at a lower DOP than a high molecular weight alternative

Pigment Blue 15:4 Resin-Free Dispersion

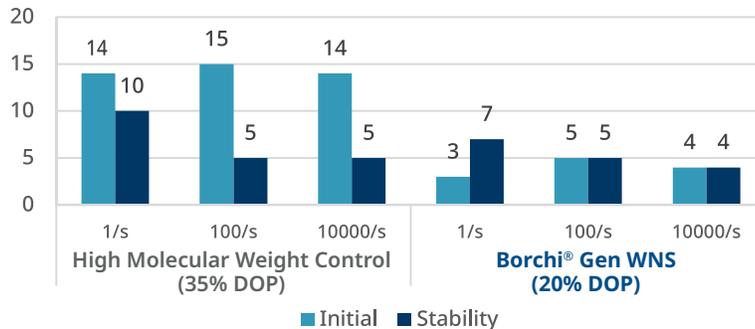
Using a high surface area (70m²/g), transparent, organic pigment with heat management properties

| Material | Function | High Molecular Weight Control (35% DOP) | Borchi® Gen WNS (20% DOP) |
|-------------------------------|--------------|---|---------------------------|
| High molecular weight control | Dispersant | 14.00 | — |
| Borchi® Gen WNS | Dispersant | — | 4.45 |
| DI Water | Carrier | 65.00 | 74.55 |
| Fastogen Blue 5485K | Pigment 15:4 | 20.00 | 20.00 |
| Borchers® AF 1171 | Defoamer | 1.00 | 1.00 |
| Total | | 100.00 | 100.00 |
| Pigment % | | 20.00 | 20.00 |

Media: Zr beads | Media size: 0.6-0.8 mm | Media amount: 1:1.5 | Time: 2h in Lau

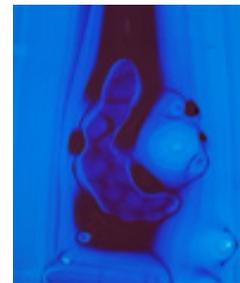
Better Viscosity Stability

After 2 Weeks at 50°C, cPs

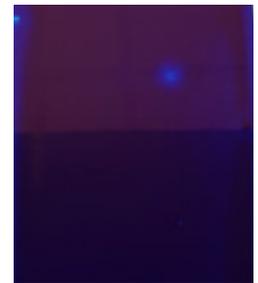


Improved Wetting

Close Up of Drawdown on Mylar After 24 Hours Drying



High Molecular Weight Control (35% DOP)



Borchi® Gen WNS (20% DOP)

Smaller Particle Sizes with Good Stability

Particle Size Stability (nm, 2 weeks at 50 °C)



High Molecular Weight Control (35% DOP)



Borchi® Gen WNS (20% DOP)

| | | |
|-----------|------|-----|
| Initial | 2347 | 175 |
| Stability | 1933 | 169 |

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Better Color Development

Waterborne Styrene Acrylic White Coating with 2.5 wt % Pigment Loading



High Molecular Weight Control (35% DOP)

Borchi® Gen WNS (20% DOP)

Good Compatibility

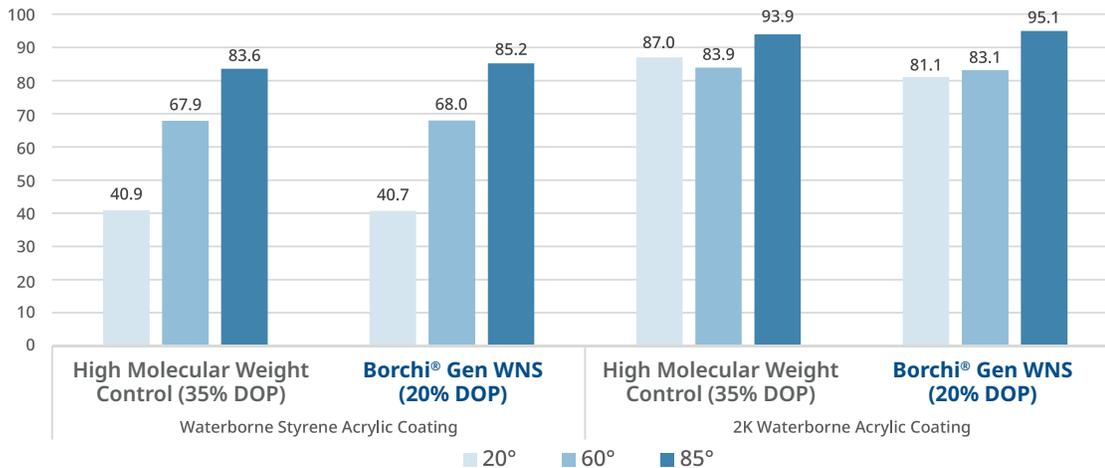
2K Waterborne Acrylic Clear Coating with 20.4 wt % Pigment Loading



High Molecular Weight Control (35% DOP)

Borchi® Gen WNS (20% DOP)

Comparable Gloss



Download the starting point formulations.



For more information, please reach us at borchers.com/contact

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